

Applicant : Tai-Jay Chang
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Attorney's Docket No.: 11709-003001 / 0674-5737US

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

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3/21/05
1. (Withdrawn) A substantially pure polypeptide comprising an amino acid sequence at least 70% identical to SEQ ID NO:2, wherein the polypeptide binds to an androgen receptor and increases the ability of the androgen receptor to transactivate an androgen-responsive gene.
 2. (Withdrawn) The polypeptide of claim 1, wherein the amino acid sequence is at least 80% identical to SEQ ID NO:2.
 3. (Withdrawn) The polypeptide of claim 1, wherein the amino acid sequence is at least 90% identical to SEQ ID NO:2.
 4. (Withdrawn) The polypeptide of claim 1, wherein the amino acid sequence is at least 95% identical to SEQ ID NO:2.
 5. (Withdrawn) A substantially pure polypeptide comprising the amino acid sequence of SEQ ID NO:2.
 6. (Withdrawn) A substantially pure polypeptide comprising the amino acid sequence of SEQ ID NO:2, with up to 30 conservative amino acid substitutions, wherein the polypeptide binds to an androgen receptor and increases the ability of the androgen receptor to transactivate an androgen-responsive gene.

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7. (Withdrawn) A substantially pure polypeptide encoded by a nucleic acid that hybridizes under high stringency conditions to a probe the sequence of which consists of SEQ ID NO:1, wherein the polypeptide binds to an androgen receptor and increases the ability of the androgen receptor to transactivate an androgen-responsive gene.

8. (Cancelled).

9. (Previously presented) An isolated nucleic acid encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:2.

10-15. (Cancelled).

16. (Original) A vector comprising the nucleic acid of claim 9.

17-20. (Cancelled).

21. (Original) A cultured host cell comprising the nucleic acid of claim 9.

22-24. (Cancelled).

25. (Currently amended) A method of producing a polypeptide, the method comprising culturing the cultured host cell of claim [[20]] 21 in a culture, expressing the polypeptide in the cultured host cell, and isolating the polypeptide from the culture.

26. (Withdrawn) A method of screening for a compound that decreases androgen receptor-mediated transactivation, the method comprising contacting the polypeptide of claim 1 with a protein complex comprising an androgen receptor, in the presence of a candidate compound;

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measuring the extent of binding between the polypeptide and the protein complex; and determining whether the extent of binding is less than the extent of binding between the polypeptide and the protein complex in the absence of the candidate compound, wherein an extent of binding in the presence of the compound less than the extent of binding in the absence of the compound indicates that the candidate compound decreases androgen receptor-mediated transactivation.

27. (Withdrawn) An antibody that binds specifically to the polypeptide of claim 1.

28. (Withdrawn) An antibody that binds specifically to the polypeptide of claim 5.

29. (Withdrawn) A method of determining whether a sample contains cancerous cells, the method comprising:

providing a sample from a human patient, and
detecting androgen receptor complex-associated protein gene expression in the sample,

wherein a level of androgen receptor complex-associated protein gene expression in the sample higher than a level of androgen receptor complex-associated protein gene expression in a normal sample indicates that the sample contains cancerous cells.

30. (Withdrawn) The method of claim 29, wherein the cancerous cells are liver tumor cells.

31. (Withdrawn) A method of treating cancer, the method comprising:
identifying a patient having a cancer that expresses androgen receptor complex-associated protein gene, and

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treating the patient with a compound that blocks binding of the androgen receptor complex-associated protein to an androgen receptor or decreases the ability of the androgen receptor to transactivate an androgen-responsive gene.

32. (Withdrawn) The method of claim 31, wherein the cancer is a liver cancer.

33. (Withdrawn) The method of claim 31, wherein the compound is an antibody.

34. (Withdrawn) The method of claim 32, wherein the compound is an antibody.

35. (Previously presented) The nucleic acid of claim 8, wherein the amino acid sequence is at least 80% identical to SEQ ID NO:2.

36. (Previously presented) The nucleic acid of claim 35, wherein the amino acid sequence is at least 90% identical to SEQ ID NO:2.

37. (Previously presented) The nucleic acid of claim 36, wherein the amino acid sequence is at least 95% identical to SEQ ID NO:2.

38. (Previously presented) The vector of claim 15, wherein the amino acid sequence is at least 80% identical to SEQ ID NO:2.

39. (Previously presented) The vector of claim 38, wherein the amino acid sequence is at least 90% identical to SEQ ID NO:2.

40. (Previously presented) The vector of claim 39, wherein the amino acid sequence is at least 95% identical to SEQ ID NO:2.

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41. (Previously presented) The host cell of claim 20, wherein the amino acid sequence is at least 80% identical to SEQ ID NO:2.

42. (Previously presented) The host cell of claim 41, wherein the amino acid sequence is at least 90% identical to SEQ ID NO:2.

43. (Previously presented) The host cell of claim 42, wherein the amino acid sequence is at least 95% identical to SEQ ID NO:2.

44. (Previously presented) The method of claim 25, wherein the amino acid sequence is at least 80% identical to SEQ ID NO:2.

45. (Previously presented) The method of claim 44, wherein the amino acid sequence is at least 90% identical to SEQ ID NO:2.

46. (Previously presented) The method of claim 45, wherein the amino acid sequence is at least 95% identical to SEQ ID NO:2.